



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, Idaho 83706 • (208) 373-0502

Dirk Kempthorne, Governor
Toni Hardesty, Director

March 23, 2006

Certified Mail No. 7005 1160 0000 1550 2928

Rodney Jones
G2 Energy LLC
1415 Harrison Blvd.
Boise, ID 83702

RE: Facility ID No. 001-00214, G2 Energy LLC, Boise
Final Permit Letter

Dear Mr. Jones:

The Idaho Department of Environmental Quality (DEQ) is issuing Permit to Construct (PTC) No. P-050049 to G2 Energy LLC, in accordance with IDAPA 58.01.01.200 through 228 (Rules for the Control of Air Pollution in Idaho).

This permit is based on your permit application received October 27, 2005. This permit is effective immediately. This permit does not release G2 Energy LLC from compliance with all other applicable federal, state, or local laws, regulations, permits, or ordinances.

A representative of the Boise Regional Office will contact you regarding a meeting with DEQ to discuss the permit terms and requirements. DEQ recommends the following representatives attend the meeting: your facility's plant manager, responsible official, environmental contact, and any operations staff responsible for day-to-day compliance with permit conditions.

Pursuant to IDAPA 58.01.23, you, as well as any other entity, may have the right to appeal this final agency action within 35 days of the date of this decision. However, prior to filing a petition for a contested case, I encourage you to call Bill Rogers at (208) 373-0502 to address any questions or concerns you may have with the enclosed permit.

Sincerely,

Martin Bauer, Administrator
Air Quality Division

MB/ABC/bf

Permit No. P-050049

Enclosures

c: June Hues, Boise Regional Office
Bill Rogers, Permit Coordinator
Almer Casile, Permit Writer
~~Maribeth Seymour~~/ Pat Rayne, Air Quality Division
Joan Lechtenberg, Public Comment
Laurie Kral, US EPA Region 10
Permit Binder
Phyllis Heitman (Ltr Only)
Source File
Reading File (Ltr Only)



**Air Quality
PERMIT TO CONSTRUCT**

**State of Idaho
Department of Environmental Quality**

PERMIT No.: P- 050049

FACILITY ID No.: 001-00214

AQCR: 64

CLASS: SM80

SIC: 4911

ZONE: 11

UTM COORDINATE (km): 557.5, 4838.6

1. PERMITTEE
G2 Energy LLC

2. PROJECT
Initial Permit to Construct

3. MAILING ADDRESS
1415 Harrison Blvd.

CITY
Boise

**STATE
ID**

ZIP
83702

4. FACILITY CONTACT
Rodney Jones

TITLE
Managing Member

TELEPHONE
(208) 867-1186

5. RESPONSIBLE OFFICIAL
Rodney Jones

TITLE
Managing Member

TELEPHONE
(208) 867-1186

6. EXACT PLANT LOCATION
10300 Seamens Gulch Road, Boise, Idaho

COUNTY
Ada

7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS
Electrical generation using landfill gas

8. GENERAL CONDITIONS

This permit is issued according to IDAPA 58.01.01.200, Rules for the Control of Air Pollution in Idaho, and pertains only to emissions of air contaminants regulated by the state of Idaho and to the sources specifically allowed to be constructed or modified by this permit.

This permit (a) does not affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to damage to person or property caused by, resulting from, or arising out of the design, installation, maintenance, or operation of the proposed equipment; (c) does not release the permittee from compliance with other applicable federal, state, tribal, or local laws, regulations, or ordinances; (d) in no manner implies or suggests that the Department of Environmental Quality (DEQ) or its officers, agents, or employees, assume any liability, directly or indirectly, for any loss due to damage to person or property caused by, resulting from, or arising out of design, installation, maintenance, or operation of the proposed equipment.

This permit will expire if construction has not begun within two years of its issue date or if construction is suspended for one year.

This permit has been granted on the basis of design information presented with its application. Changes of design or equipment may require DEQ approval pursuant to the Rules for the Control of Air Pollution in Idaho, IDAPA 58.01.01.200, et seq.


**TONI HARDESTY, DIRECTOR
DEPARTMENT OF ENVIRONMENTAL QUALITY**

DATE ISSUED: March 23, 2006

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Acronyms, Units, and Chemical Nomenclature

AQCR	Air Quality Control Region
CO	carbon monoxide
DEQ	Department of Environmental Quality
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
km	kilometer
lb/hr	pound per hour
PTC	permit to construct
SIC	Standard Industrial Classification
T/yr	tons per any consecutive 12-month period
UTM	Universal Transverse Mercator
VOC	volatile organic compound

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-050049

Permittee:	G2 Energy	Facility ID No. 001-00214	Date Issued:	March 23, 2006
Location:	Boise, Idaho			

1. PERMIT TO CONSTRUCT SCOPE***Purpose***

- 1.1 This permit allows for the construction of two 1.6-megawatt electrical generators. The generators are located near the Ada County Landfill Hidden Hollow Cell and will use the methane gas generated by the landfill cell for fuel.

Regulated Sources

Table 1.1 lists all sources of regulated emissions in this PTC.

Table 1.1 SUMMARY OF REGULATED SOURCES

Permit Section	Source Description	Emissions Control(s)
2	(2) 1.6-megawatt electrical generators	None

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2. GENERATORS

2.1 Process Description

Two 1.6-megawatt electrical generators will use the methane gas produced by the Ada County Landfill Hidden Hollow Cell to produce electricity. Annual electrical power production for each generator is limited to 12,894,720 kilowatts to limit CO emissions to 99 T/yr.

2.2 Emissions Control Description

Emissions from the generators are uncontrolled.

Emissions Limits

2.3 Emissions Limits

The CO emissions from the two generator stacks in combination shall not exceed 99 tons per any consecutive 12-month period.

2.4 Opacity Limit

Visible emissions from the generator stacks, or any other stack, vent, or functionally equivalent opening associated with the generators, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

Operating Requirements

2.5 Annual Electrical Power Production Limit

Annual electrical power production for each generator shall be limited to 12,894,720 kilowatts per any 12-month consecutive period.

2.6 Allowable Fuel

The generators shall burn landfill gas only.

2.7 Power Meter

The permittee shall install, calibrate, maintain, and operate on each 1.6-megawatt generator a power meter to track the kilowatts of energy produced on an hourly basis.

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Monitoring and Recordkeeping Requirements**2.8 Energy Production Monitoring**

The permittee shall monitor and record on an hourly basis the kilowatts of energy produced. Annual kilowatts produced shall be determined by summing hourly kilowatts produced over the previous consecutive 12-month period to demonstrate compliance with Permit Conditions 2.3 and 2.5.

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3. PERMIT TO CONSTRUCT GENERAL PROVISIONS

1. The permittee has a continuing duty to comply with all terms and conditions of this permit. All emissions authorized herein shall be consistent with the terms and conditions of this permit and the Rules for the Control of Air Pollution in Idaho. The emissions of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the Rules for the Control of Air Pollution in Idaho, and the Environmental Protection and Health Act, Idaho Code §39-101, et seq.
2. The permittee shall at all times (except as provided in the Rules for the Control of Air Pollution in Idaho) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable Idaho laws for the control of air pollution.
3. The permittee shall allow the Director, and/or the authorized representative(s), upon the presentation of credentials:
 - To enter, at reasonable times, upon the premises where an emissions source is located, or in which any records are required to be kept under the terms and conditions of this permit.
 - At reasonable times, to have access to and copy any records required to be kept under the terms and conditions of this permit, to inspect any monitoring methods required in this permit, and require stack compliance testing in conformance with IDAPA 58.01.01.157 when deemed appropriate by the Director.
4. Nothing in this permit is intended to relieve or exempt the permittee from compliance with any applicable federal, state, or local law or regulation, except as specifically provided herein.
5. The permittee shall notify DEQ, in writing, of the required information for the following events within five working days after occurrence:
 - Initiation of Construction - Date
 - Completion/Cessation of Construction - Date
 - Actual Production Startup - Date
 - Initial Date of Achieving Maximum Production Rate - Production Rate and Date
6. If performance testing (air emissions source test) is required by this permit, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test date or shorter time period as approved by DEQ. DEQ may, at its option, have an observer present at any emissions tests conducted on a source. DEQ requests that such testing not be performed on weekends or state holidays.

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All performance testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, at least 30 days prior to conducting any performance test, the permittee is encouraged to submit a performance test protocol to DEQ for approval. The written protocol shall include a description of the test method(s) to be used, an explanation of any or unusual circumstances regarding the proposed test, and the proposed test schedule for conducting and reporting the test.

Within 30 days following the date in which a performance test required by this permit is concluded, the permittee shall submit to DEQ a performance test report. The written report shall include a description of the process, identification of the test method(s) used, equipment used, all process operating data collected during the test period, and test results, as well as raw test data and associated documentation, including any approved test protocol.

7. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
8. In accordance with IDAPA 58.01.01.123, all documents submitted to DEQ, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certification shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.